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(single molecule (sequencing or detection)) and

- 1997

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...) to genomic DNA fragments by the **polymerase** chain reaction results in improved **detection** of

single- ...- [►pnas.org](#) [\[PDF\]](#)

VC Sheffield, DR Cox, LS Lerman, RM Myers - Proceedings of the National Academy of Sciences, 1989 - National Acad Sciences

... measures DNA **sequence** alterations due to a loss or ... At this point, the branching of the **molecule** caused by ... differing by as little as a **single**-base substitution ...

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Real-time DNA sequencing using detection of pyrophosphate release

M Ronaghi, S Karamohamed, B Pettersson, M Uhlén, P ... - Analytical biochemistry, 1996 - Elsevier

... **single molecule detection** (7). Another alternative ap- ... proach for **sequence**-based analysis is to detect the in ... approach relies on the **detection** of DNA **polymerase** ...

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High-speed DNA sequencing: an approach based upon fluorescence detection of single molecules

JH Jett, RA Keller, JC Martin, BL Marrone, RK ... - 6. conversation in the discipline biomolecular ..., 1989 - osti.gov

... the ability to work at the **single molecule**/strand ... Improved sensitivity for fluorescence **detection** in flowing ... **sequencing** the tags has application for other ...

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Fluorescence correlations, single molecule detection and large number screening applications in ...

R Rigler - Journal of biotechnology, 1995 - Elsevier

... 18mer primer and KlenowDNA **polymerase** (upper) transients ... sensitivity provided by **single molecule detection** of nucleic ... 6. Rapid DNA **sequencing** DNA **sequencing** is ...

Cited by 135 - Related articles - Web Search - All 4 versions

... **detection** of the allelic state of **single** DNA molecules in human sperm by using the **polymerase**

chain ...- [►pnas.org](#) [\[PDF\]](#)

H Li, X Cui, N Arnheim - Proceedings of the National Academy of Sciences, 1990 - National Acad Sciences

... **molecule detection** system uses allele-specific PCR primers ... Sperm were purified and **single** sperm samples were ... primers and probes Locus Name **Sequence** (5' to 3' ...

Cited by 106 - Related articles - Web Search - All 7 versions

Techniques for single molecule sequencing

K Dorre, S Brakmann, M Brinkmeier, KT Han, K ... - Bioimaging, 1997 - interscience.wiley.com

... were achieved in the narrow (**detection**) part of ... central role within the **single molecule sequencing** concept ... is easily visualized with the **polymerase** subunit that ...

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PCR-SSCP: a simple and sensitive method for detection of mutations in the genomic DNA-

[►cshlp.org](#) [\[PDF\]](#)

K Hayashi - Genome Research, 1991 - genome.cshlp.org

... can cause detectable structural change of the **molecule**. ... changes caused by subtle **sequence** differences such ... higher- order structure of **single**-stranded nucleic ...